#### RAW SEQUENCE LISTING PATENT APPLICATION US/08/896,589

DATE: 09/03/97 TIME: 13:27:20

INPUT SET: S20087.raw

This Raw Listing contains the General Information Section and up to the figst 5 pages.

TERED SEQUENCE LISTING 1 3 (1) General Information (i) APPLICANT: Burnham, Martin K. 6 (ii) TITLE OF THE INVENTION: NOVEL XANTHINE PHOSPHORIBOSYL 7 8 TRANSFERASE 9 10 (iii) NUMBER OF SEQUENCES: 6 11 (iv) CORRESPONDENCE ADDRESS: 12 (A) ADDRESSEE: Dechert Price & Rhoads 13 (B) STREET: 997 Lenox Drive, Building 3, Suite 210 14 15 (C) CITY: Lawrenceville 16 (D) STATE: NJ 17 (E) COUNTRY: USA (F) ZIP: 08543 18 19 (v) COMPUTER READABLE FORM: 20 21 (A) MEDIUM TYPE: Diskette 22 (B) COMPUTER: IBM Compatible 23 (C) OPERATING SYSTEM: DOS (D) SOFTWARE: FastSEQ for Windows Version 2.0 24 25 26 (vi) CURRENT APPLICATION DATA: 27 (A) APPLICATION NUMBER: 28 (B) FILING DATE: 29 (C) CLASSIFICATION: 30 31 (vii) PRIOR APPLICATION DATA: (A) APPLICATION NUMBER: 32 33 (B) FILING DATE: 34 35 36 (viii) ATTORNEY/AGENT INFORMATION: 37 38 (A) NAME: Bloom, Allen (B) REGISTRATION NUMBER: 29,135 39 (C) REFERENCE/DOCKET NUMBER: 40 41 (ix) TELECOMMUNICATION INFORMATION: 42 43 (A) TELEPHONE: 609-520-3214 44 (B) TELEFAX: 609-520-3259

(C) TELEX:

45 46

99

# RAW SEQUENCE LISTING PATENT APPLICATION US/08/896,589

_ ,																		
48			(2)	) IN	FORM	ATIO	N FOI	R SE	) ID	NO:	L:							
49												•						
50		( :	•	_			ACTE											
51	(A) LENGTH: 582 base pairs																	
52	(B) TYPE: nucleic acid (C) STRANDEDNESS: double																	
53			(C)	STRA	ANDEI	)NES	s: do	ouble	€						•			
54			(D)	TOP	DLOGY	<b>?: 1</b> :	inear	r										
55																		
56																		
57		( )	(i)	SEQUE	ENCE	DES	CRIP	CION:	: SE	Q ID	NO:	l:						
58		•	•	_						_								
59	ATG	AAAT?	'AT	raga <i>i</i>	AGAGO	CG C	ATCC1	CAAC	GA!	rggg	CATA	TCT	rggg:	rga '	TAAC	ATCCTC	2	60
60	AAG	TAG	ATT (	CTT	TTA	AC C	CACC	AAGT	r GA	CTTT	AGCT	TGA	rgcg	AGA (	GATT	GTAAG	3	120
51																CGTC		180
52																CCAA		240
63																TTACC		300
64																AAGGTT		360
65																ATCATO		420
66																CAAGAT		480
57 57																SATCGI		540
68		- <b>-</b>					TTTA/											582
69		JANAI	110 (	JIOA	30100			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,										
70			12	ואד ו	7ORM2	ነጥፐ (ነ	N FOI	SEC	מד מ	NO ·								
71			\ 2	, 1111	· Olum	1110.		. 52,	2 10		• •							
72		/ -	ו פו	र ।	VCE (	THAR:	ACTE	<b>ЭТСТ</b>	נקפי									
73		( -					amiı											
74							acio		, <u>, , , , , , , , , , , , , , , , , , </u>									
75							S: s:		_									
76							inea:	_	-									
, 0 77			( )	101	JECG.		rnea.	_										
, , 78																		
79		/ •	, i \ (	ZPOII	PMCE	חשפו	CRIP	PTON:	. QF/	1 T D	NO · 1							
80		( 2	` ' '	PPQU	SITCE	יכנוע	CIVII .	1011	. 55,	2 10	110.2	•						
81	Mat	Tue	T 611	T.All	@lu	Glu	Ara	т1ь	T.611	T.vc	Aan	al v	Hig	Tla	Leu	Glv		
82	1	цуз	Leu	neu	5	GIG	ALG	116	пец	10	АЗР	CLY	111.5	110	15	013		
83	_	λen	т1ь	T 611	_	V = 1	Aen	Ser	Dha		Thr	Hic	Gln	Val	Asp	Phe		
84	ASP	ASII	TTE	20	цуз	Val	ASP	Ser	25	Leu	1111	1112	GIII	30	ASP	rne		
85	807	T 011	Mot		al.,	тіс	C1 17	Tue		Dho	λla	Glu	T 170		Ala	λla		
	Ser	ьeu	35	ALG	GIU	TTE	СТУ	40	Val	FIIE	AIG	GIU	45	FIIE	ALG	AIG		
86 97	mb ~	al		mb ~	Lvc	v-1	Wal.		T1.	al.,	. ה	Sor		Tla	Ala	Dro		
87	THE	-	TTG	THE	гуѕ	νат	55	TILL	TTE	GIU	АТА	60	GTÀ	TTE	АТа	PIU		
88 80	.1.	50	Dha	mla se	<b>33</b> 0	a1		T 011	N.c.m	1701	Dro		Tlo	Dho	Ala	Luc		
89		νат	Pne	THE	Ата		АТА	Leu	ASII	var	75	Met	TTE	Pile	АТА			
90	65	37 -	T	<b>λ</b> ~ ~	T1.	70 ™b∽	Wa+	<b>3 ~~</b>	<b>a</b> 1	<u>ما</u>	. –	Γ	mb~	. רג	Gln	80 Val		
91	гÀг	АТа	гàг	ASN		Thr	мес	ASN	GIU	_	тте	Leu	Thr	Ата		vaı		
92	m	<b>~</b> ~ ~	nl	ml	85	<b>41</b> -		ml	Oc	90 mb	17 c 7	G	<b>71</b> -	27-	95	T ***		
93	Tyr	ser	rne		ьys	GTN	·vaT	Aut		rnr	vaı	ser	тте		Gly	ràz		
94	_1	_ •	-	100	<b></b> 7		Ĺ.		105				•	110		.1 -		
95	Pne	Leu		Pro	GLU	Asp	rys		ьeu	тте	тте	Asp		Fue	Leu	АТА		
96	_		115					120		a 7		<b>-</b> 3.	125	<b>~</b> 1		<b>a</b> 3		
97	Asn	_	GIn	Ala	Α⊥а	гуs	-		тте	GIN	тте		GIU	GIN	Ala	стλ		
98		130					135					140	~	-1	<b>47</b>	3		
99	Ala	Thr	Va⊥	Gln	Ala	ITé	GTÀ	тте	va⊥	тте	GLu	Lys	ser	Pne	Gln	asp		

152

# RAW SEQUENCE LISTING PATENT APPLICATION US/08/896,589

DATE: 09/03/97 TIME: 13:27:25

	INPUT SET: S20087.ra	w										
100	145 150 155 160											
101	Gly Arg Asp Leu Leu Glu Lys Ala Gly Tyr Pro Val Leu Ser Leu Ala											
102	165 170 175											
103	Arg Leu Asp Arg Phe Glu Asn Gly Gln Val Val Phe Lys Glu Ala Asp											
104	180 185 190	Э.										
105	Leu											
106												
107												
108	(2) INFORMATION FOR SEQ ID NO:3:											
109												
110	(i) SEQUENCE CHARACTERISTICS:											
111	(A) LENGTH: 579 base pairs											
112	(B) TYPE: nucleic acid											
113	(C) STRANDEDNESS: double											
114	(D) TOPOLOGY: linear											
115												
116												
117	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:3:											
118	(, <u>-</u>											
119	ATGAAATTAT TAGAAGAGCG CATCCTCAAG GATGGGCATA TCTTGGGTGA TAACATCCTC	60										
120		20										
121		80										
122	GGTATTGCCC CAGCCGTTTT TACAGCTGAA GCCTTAAACG TTCCCATGAT TTTCGCCAAA 2	40										
123	AAAGCTAAGA ACATCACCAT GAACGAAGGC ATCTTAACTG CTCAAGTCTA CTCCTTTACC	00										
124	AAGCAGGTGA CCAGCACTGT TTCTATCGCT GGAAAATTCC TCTCACCAGA GGACAAGGTT 3	60										
125	TTGATTATCG ACGATTTCCT TGCTAATGGC CAAGCTGCTA AAGGCTTGAT TCAAATCATC 4	20										
126		80										
127	GGTCGTGATT TGCTTGAAAA AGCAGGCTAC CCTGTCCTAT CACTTGCTCG CTTGGATCGT 5	40										
128	TTTGAAAATG GTCAGGTCGT ATTTAAGGAG GCAGATCTC 5	79										
129												
130	(2) INFORMATION FOR SEQ ID NO:4:											
131												
132	(i) SEQUENCE CHARACTERISTICS:											
133	(A) LENGTH: 193 amino acids											
134	(B) TYPE: amino acid											
135	(C) STRANDEDNESS: single											
136	(D) TOPOLOGY: linear											
137												
138												
139	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:4:											
140												
141	Met Lys Leu Leu Glu Glu Arg Ile Leu Lys Asp Gly His Ile Leu Gly											
142	1 5 10 15											
143	Asp Asn Ile Leu Lys Val Asp Ser Phe Leu Thr His Gln Val Asp Phe											
144	20 25 30											
145	Ser Leu Met Arg Glu Ile Gly Lys Val Phe Ala Glu Lys Phe Ala Ala											
146	<b>35 40 ▶ 45</b>											
147	Thr Gly Ile Thr Lys Val Val Thr Ile Glu Ala Ser Gly Ile Ala Pro											
148	50 55 🕸 60											
149	Ala Val Phe Thr Ala Glu Ala Leu Asn Val Pro Met Ile Phe Ala Lys											
150	65 70 6 75 80											
151	Lys Ala Lys Asn Ile Thr Met Asn Glu Gly Ile Leu Thr Ala Gln Val											
152	QE : 'QA QE											

. 90

85

95

### RAW SEQUENCE LISTING PATENT APPLICATION US/08/896,589

DATE: 09/03/97 TIME: 13:27:27

	INPUT SET: S20087.raw										
153											
154	100 105 110										
155	Phe Leu Ser Pro Glu Asp Lys Val Leu Ile Ile Asp Asp Phe Leu Ala										
156	115 120 125										
157	Asn Gly Gln Ala Ala Lys Gly Leu Ile Gln Ile Ile Glu Gln Ala Gly										
158	130 135 140										
159	Ala Thr Val Gln Ala Ile Gly Ile Val Ile Glu Lys Ser Phe Gln Asp										
160	145 150 155 160										
161	Gly Arg Asp Leu Leu Glu Lys Ala Gly Tyr Pro Val Leu Ser Leu Ala										
162	165 170 175										
163	Arg Leu Asp Arg Phe Glu Asn Gly Gln Val Val Phe Lys Glu Ala Asp										
164	180 185 190										
165	Leu										
166											
167	·										
168	• •										
169											
170	(i) SEQUENCE CHARACTERISTICS:										
171	V/										
172	•										
173	, , , , , , , , , , , , , , , , , , ,										
174	(D) TOPOLOGY: linear										
175 176											
177	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:5:										
178	(XI) SEQUENCE DESCRIPTION: SEQ ID NO.5:										
179	TCCTCAAGGT AGATTCCTTT TTAAC 25										
180											
181											
182	• •										
183											
184	` ' ~										
185	• •										
186											
187	(D) TOPOLOGY: linear										
188	/-/ <del></del>										
189											
190											
191	A Property of the Control of the Con										
192	CTCCTTAAAT ACGACCTGAC 20										

## SEQUENCE VERIFICATION REPORT PATENT APPLICATION US/08/896,589

DATE: 09/03/97 TIME: 13:27:29

INPUT SET: S20087.raw

Line

Error

Original Text